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# NUMBERS & ODDITIES #
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-                                     -
- Download the complete N&O newsletter from the N&O web site -
- at: http://home.luna.nl/~ary/ -
-                                     -
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- http://www.spynumbers.com/numbersDB/ -
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-::: N&O #64 August 2003 :::-

Hot, hot, hot. We had the hottest summer ever recorded in Holland. So I hope you'll understand that I haven't tuned in much this month and looking at the input, it looks like I'm not the only one. I am glad that Fritz has sent me his findings :-). Nonetheless it is a very short N&O this time. Please, don't forget to send me your logs and info.

Press release:

"UK band Spunkle has released a set of songs called "Music for DXing" that are inspired by the hunt for signals. There's some XP inspired tunes as well as some more challenging pieces, and they nearly all feature the flotsam of the airwaves.

The artist figured that fellow listeners might want to hear them, and is interested in how "listenable" the collection is, given that some dxers don't seem to mind listening to the assorted fizzes of HF!"

"Music for Dxing" is online at <http://1104.ca/dav> for a limited time. If you like this record, please contact captain.davros@virgin.net

Two other numbers related tunes created by Spunkle are "XPH" and "the Buzzer". Both are inspired by..... guess what :-)

Download them from <http://nightshift.oxfordmusic.net/jan99/sounds.html>

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Jochen (jochen.schupper@gmx.de) is one of our regular contributors. He collects recordings of numbers stations and he is especially interested in G15 and G16 recordings from 1980's, 1970's or earlier. If you can help him, drop him a line.

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★ VOICE STATIONS ★

Not much to report. S13 and E25 were heard after quite a while. Further we have the monthly compilation of Cherry Ripe and the Lincolnshire Poacher id's by Tomonori and Al.

::: E10

No special messages noted in August, just 3 suffixes:

4270 kHz, 1930 UTC, 7 Aug: PCD 1
9202 kHz, 1230 UTC, 12 Aug: EZI 1
13533 kHz, 2100 UTC, 24 Aug: EZI 1
17409 kHz, 1233 UTC, 24 Aug: EZI 1

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::: E25

A nice log from Manolis makes us think that E25 is still alive and kicking. Manolis has heard the station on 9448 kHz USB around 1229 UTC on 12 August. It hasn't been heard after that, so let's keep our ears open.

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::: S13

S13 isn't reported very often these days. The male edition turned up on 14006 kHz at 0616 UTC on 23 July.

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::: V13

Another one that is now difficult to hear in Europe and the USA is New Star. Today (24 Aug) it has been heard on 8300 and 9725 kHz, though.

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::: E03 & E04

Lincolnshire Poacher E03

IDs as of August 1st, 2003

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
-----	-----	-----	-----	-----	-----	-----	-----	-----

1200	79109	79109	79109	79109	79109	79109	79109	1200
1300	73554	73554	73554	73554	73554	73554	73554	1300
1400	60056	21818	83756	70869	79109	85079	87675	1400
1500	87675	60056	21818	83756	70869	79109	66751	1500
1600	66751	87675	60056	21818	83756	70869	85079	1600
1700	85079	66751	87675	60056	21818	83756	79109	1700
1800	79109	85079	66751	87675	60056	21818	70869	1800
1900	70869	73554	85079	73554	87675	60056	73554	1900
2000	73554	79109	73554	66751	73554	87675	83756	2000
2100	83756	70869	79109	85079	66751	73554	21818	2100
2200	21818	83756	70869	79109	85079	66751	60056	2200

IDs as of August 15th, 2003

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	54509	54509	54509	54509	54509	54509	54509	1200
1300	61244	61244	61244	61244	61244	61244	61244	1300
1400	68680	43438	68179	73644	54509	19774	66914	1400
1500	66914	68680	43438	68179	73644	54509	72281	1500
1600	72281	66914	68680	43438	68179	73644	19774	1600
1700	19774	72281	66914	68680	43438	68179	54509	1700
1800	54509	19774	72281	66914	68680	43438	73644	1800
1900	73644	61244	19774	61244	66914	68680	61244	1900
2000	61244	54509	61244	72281	61244	66914	68179	2000
2100	68179	73644	54509	19774	72281	61244	43438	2100
2200	43438	68179	73644	54509	19774	72281	68680	2200

Cherry Ripe E04

IDs as of Aug 1st, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		89816				83681	0000
0100		55459				99830	0100
1000		35815				55537	1000
1100		16713				01476	1100
1200		64072				59258	1200
1300		79513				70530	1300
1400							1400
2200	57130				01476		2200
2300	35815				64253		2300

IDs as of Aug 8th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		59258	70530	01476	64253	LOST	0000
0100		70530	01476	64253	83681	LOST	0100
1000		01476	64253	83681	99830	LOST	1000

1100		64253	83681	99830	55537	LOST	1100
1200		83681	99830	55537	01476	LOST	1200
1300		XXXXX	55537	01476	59258	LOST	1300
1400							1400
2200	55537	01476	59258	70530	01476		2200
2300	01476	59258	70530	01476	LOST		2300

IDs as of Aug 15th, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		59258	70530	01476	64253	01822	0000
0100		70530	01476	64253	83681	81438	0100
1000		01476	64253	83681	99830	67976	1000
1100		64253	83681	99830	55537	57381	1100
1200		83681	99830	55537	01476	13151	1200
1300		99830	55537	01476	59258	93873	1300
1400							1400
2200	55537	01476	59258	70530	57381		2200
2300	01476	59258	70530	01476	08296		2300

IDs as of Aug 22nd, 2003

UTC	Sun	Mon	Tue	Wed	Thu	Fri	UTC
0000		13151	93873	57381	08296	01822	0000
0100		93873	57381	08296	01822	81438	0100
1000		57381	08296	01822	81438	67976	1000
1100		08296	01822	81438	67976	57381	1100
1200		01822	81438	67976	57381	13151	1200
1300		81438	67976	57381	13151	XXXXX	1300
1400							1400
2200	67976	57381	13151	93873	57381		2200
2300	57381	13151	93873	57381	08296		2300

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* MORSE STATIONS *

::: MX

3335.7 "L" Tirana
3658.0 "V" Khiva
3772.0 "P" St. Petersburg
4031.0 "P" St. Petersburg
4210.0 "P" St. Petersburg
4325.8 "R" Izhevsk
4474.9 "P" St. Petersburg
5153.8 "P" St. Petersburg
5153.7 "D" Odessa

5153.9 "S" Arkhangelsk
5154.0 "C" Moscow
5465.8 "R" Izhevsk
7000.0 "K" spur of 7039 kHz
7038.7 "D" Odessa
7038.9 "S" Arkhangelsk
7039.0 "C" Moscow
7039.3 "K" Petropavlovsk Kamchatskiy
7039.4 "M" Magadan
7039.2 "F" Vladivostok
8494.7 "D" Odessa
8495.0 "C" Moscow
10871.7 "D" Odessa
10871.9 "S" Arkhangelsk
10872.0 "C" Moscow
13527.9 "S" Arkhangelsk
13528.0 "C" Moscow
16331.7 "D" Odessa
16332.0 "C" Moscow
20047.9 "S" Arkhangelsk
20048.0 "C" Moscow

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::: M18

M18 has been using 4503 kHz for its continuous time strings (UTC+4).

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::: M21

Heard on the following frequencies:

7475.2 kHz =991918??0?????
5221.5 kHz =992306??0?????
5904.5 kHz =992341??0?????

Remarks: Very few messages (plots) heard.

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::: M22

4XZ, Israeli navy in Haifa, was heard on 2680, 2800, 4241, 4331, 5000 (very odd frequency), 5159, 6379, 8103, 10046, 12984, 13235, 13509 and 13966 kHz.

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::: M51

Although less active than a couple of years ago, it's still there!
Heard on 3638.5//5400, 5407, 5420 and 6886 kHz.

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::: M62

Slovak Military, Trencin.

3485 kHz B3ET = RNJ5 + 1.8-10.8
3485 kHz J7XD = D3QK + 11.8-20.8
3485 kHz KP6F = QR2U + 21.8-(31.8)

Examples:

QR2U QR2U QR2U = KP6F KP6F KP6F +

J7XD J7XD J7XD = D3QK D3QK D3QK +

On 18.8 at 2137 UTC it sent the following message. After that the
transmitter was switched off. It was back to normal next morning.
Possibly maintenance works that night.

5LGs = NHBC = AGEON = = for J7XD D3QK rpt QLN +
= = for J7XD = D3QK 387 588 rpt QLN k

<<<<<>>>>

::: M83

5264 kHz LPWP, MX2N, JPTP, J2V4 1.8-10.8
5302 kHz 11.8-20.8
5315 kHz 21.8-(31.8)

Remark: the network follows a repetitive schedule since May 1.

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* VARIOUS MODES *

S28: 4625 kHz, the Buzzer.

S30: 3756 kHz, the Pip. Manolis copied a message on 24 Aug at 1732 UTC.

XM: Whales sounds on 3822, 3858 and 5435 kHz.

XSL: the Slot Machine on 8313 and 8580 kHz. Other freqs were inaudible here.

XSW: the Squeaky Wheel is still on 3828.9 kHz. It was often difficult to hear it during the past months due to the propagation conditions.

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::: M42 / X06

6840 kHz, 2100 UTC, 07-08. mazielka calls

20615 kHz, 0916 UTC, 15-8, msg to UDZ27 on link 10163, RTTY.

13818 kHz, 0924 UTC, 10-8, USB/VFT/2x64Bd QPSK broadcast system, identical info on both channels, tone spacing 1000 Hz, tones separated by unmodulated carrier on 13820 kHz, coming from 16048 kHz.

16048 kHz, 0915 UTC, 10-8, USB/VFT/2x64Bd QPSK broadcast system, identical info on both channels, tone spacing 1000 Hz, tones separated by unmodulated carrier on 16050 kHz, coming from 18588 kHz.

18247 kHz, 0925, 6-8, encrypted text, CROWD-36.

18588 kHz, 0900 UTC, 10-8, USB/VFT/2x64Bd QPSK broadcast system, identical info on both channels, tone spacing 1000 Hz, tones separated by unmodulated carrier on 16050 kHz, moving to 16048 kHz.

(logged by CD, LDO and HTP)

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::: XP, XPH

XP's August schedules:

0600 UTC: 10601 kHz	0620 UTC: 12201 kHz	0640 UTC: 13501 kHz
2000 UTC: 13953 kHz	2020 UTC: 12176 kHz	2040 UTC: 10736 kHz
2000 UTC: 14984 kHz	2020 UTC: 13849 kHz	2040 UTC: 12151 kHz
2120 UTC: 16309 kHz	2140 UTC: 14909 kHz	2200 UTC: 13509 kHz

XPH's August schedules:

1830 UTC: 15626 kHz 1850 UTC: 14350 kHz 1910 UTC: 12223 kHz

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::: JAMMERS

North Korea: 3985, 6348 kHz.

South Korea: 657, 1080, 3480, 4450, 4557, 6009.9 kHz.

Saudi Arabia: 15705 kHz.

Morocco: 1550 kHz.

Iran: 7000, 7005, 7010, 7030, 7035, 7043, 7080 kHz.

Unid: 8302 kHz.

China: 9555 kHz.

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* UNID STATIONS *

Remember the oral morse station that Igor reported? When Don Schimmel read these logs he told me that he heard oral morse before. Don writes the following in his latest "Radio Intrigue":

"ORAL MORSE CODE - Recently I noted a WUN monitor item which described an activity sending the message by speaking the dits and dahs of Morse code. This caused my memory cells to kick in and in searching through some old file material, I found material which had been copied in the 80s.

The communications were between the Ethiopian Embassy in Washington DC and the Ministry of Foreign Affairs (MFA) in Addis Ababa. The Embassy used the assigned callsign of KNY44 but in addition sometimes used NDL as his callsign. The MFA used ADL as his callsign. FTK and WSL were also noted as callsigns on the frequency but they were unidentified. The Embassy operator had an absolutely horrible fist and evidently was broken frequently by Addis to request repeats. I have to point out that the Morse code the Embassy operator sent in the voice mode was a vast improvement and completely readable as opposed to his hand sending."

Thanks for the note, Don and keep up the good work.

The URL for Don's "Radio Intrigue" columns is:

<http://www.dxing.com/intrigue.htm>

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::: DTMF

Manolis reports the so far unid DTMF station again. This station was first heard on 14 April 2002 on 8237 kHz. I have put a sample on the N&O website (<http://home.luna.nl/~ary/download.htm>)

Manolis copied the station on 16396 kHz USB at 1332 UTC on 24 August. The transmission ended at 1336 UTC. He also heard it on 4095 kHz USB on Monday 20 January at 2008 UTC.

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14104 kHz, 0508 UTC, 15 July: Unid station with 5LGs in Morse.

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::: UNID CHINESE STATION

Robin Harwood copied an unid Chinese station. So far we're no sure if it belongs to the same family as "Beijing" and "Guangzhou".

The Chinese Lady seems to have a regular schedule on 5924 kHz LSB from about 1200 UTC. S/off varies between 1220 and 1240 UTC.

After hearing his Encarta language samples and sound samples of various Chinese stations and New Star, Robin writes: "The numbers station broadcasting on LSB on 5924 at 1220 is definitely in Mandarin Chinese after comparing it with my Encarta language samples. Sur is the number 4. Liaow is 6. Ba is 8. I think it may be Taiwanese after comparing with the N&O webpage but it isn't // with Star Star on 8300."

Igor suggests that it might be the same stations that operates on 6447, 9101 and 16665 kHz LSB with callsign "XSE". The Chinese lady says "MSG, GA, AGN, ZNN, SK".

Tony reported the station on 8621 kHz on 28 August at 1120 UTC.

If you know who this is, please let me know!

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::: UNID PIP

An unid pip appeared on 30 August on 8340 kHz. Tony heard it at 1130 UTC in Argentina while the station was weak but good audible during the evening and night in Western Europe. Voices and morse messages were heard on the same frequency but it is yet unknown if these are related. I locked a receiver on 8340 kHz for several hours on the 31st and heard nothing but the pip every 2 seconds.

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* MILITARY STATIONS *

::: CHINESE MILITARY

The most "famous" of all the Chinese military stations is "L9CC" which has been around for quite a while. Observed on 3563.5, 7057.5 and 7066 kHz with the well known string: "V CP17 CP17 CP17 DE L9CC L9CC".

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::: SLOVAK MILITARY

See M62 in the morse section.

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::: CZECH MILITARY

S8BD	4797//4441 kHz	0400-2000 UTC	1.8-10.8
	3397//3823 kHz	2000-0400 UTC	1.8-10.8
U4NP	4448//5228 kHz	0500-2000 UTC	11.8-20.8
	3803//3223 kHz	2000-0500 UTC	11.8-20.8
CH8N	4766//5011 kHz	0500-2000 UTC	21.8-(31.8)
	3339//3162 kHz	2000-0500 UTC	21.8-(31.8)

Remarks: the network follows a repetitive schedule since May 11.
No xxx msg heard in August.

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More Czech military traffic can be heard on these frequencies:

4820//3996 kHz	0600-1900 UTC	1.8-(31.8)
2362//2852 kHz	1900-0600 UTC	1.8-(31.8)

Markers noted include DJTG, OIBA, YFYN and ERGL.

Remarks: There is a // frequency to 4820 (well hidden by BC)

Transmissions several times not audible, technical reasons?

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"Network 25"

DRMB 5200//5810 kHz 0600-1000 UTC 1.8-10.8 Mo-Fr
KVF2 5270//5920 kHz 0600-1000 UTC 11.8-20.8 Mo-Fr
PD7D 5340//6920 kHz 0600-1000 UTC 21.8-(31.8) Mo-Fr

Remarks: the network follows a repetitive schedule now.
Markers: W6QZ, NPFP, DKSL

Examples:

W6QZ de KVF2 QTC 2 50 11 0915 = 771 W6QZ = 5LG 11.8 0719 UTC
W6QZ de KVF2 762 col 762 + (QRG changes) 18.8 0959 UTC
DKSL de PD7D QTC 5 50 21 1055 = 323 DKSL = 5LG 21.8 0857 UTC

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::: RUSSIAN / CIS MILITARY

Mode: Morse

Frequency	callsigns
3692.5	BAS7
3808.5	RJD69, RJT45)
6846.0	LUKW, LKTL, BLKZ, VZIW
8136.0	RMW32 radio checks with RBW44
8345.0	RMP traffic to RFE76
10397.0	BT08, DRVN, SN06, 2T8K
14108.0	TTJX, YGGT
14016.3	WVX8, WEWY, TRFC

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::: UKRAINIAN MILITARY

7872.5 kHz, Morse: URT70, radio checks with URR54.

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::: POLISH MILITARY

Modes: USB/voice, ALE/USB, STANAG-4285

4984 kHz: TNJ (Tadeusz-Nikodem-Jozef and Tadeusz-Natalia-Jozef),

KHV (Karol-Henryk-Violetta), ENH (Ewa-Natalia-Henryk),
UGJ (Urszula-Jozef-Gustaw), JJQ (Jozef-Jozef-Quantum)

10264 kHz: U20 calls D10; D10 calls S20; P20 calls D10. Polish military from the Iraqi theatre. The net uses Harris RF-6710 gateways to transfer e-mail.

(logs and info: Maciej, Jim and Leif)

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* INTELLIGENCE PROFILE: SOUTH AFRICA *

Background:

After the British seized the Cape of Good Hope area in 1806, many of the Dutch settlers (the Boers) trekked north to found their own republics. The discovery of diamonds (1867) and gold (1886) spurred wealth and immigration and intensified the subjugation of the native inhabitants. The Boers resisted British encroachments, but were defeated in the Boer War (1899-1902). The resulting Union of South Africa operated under a policy of apartheid (separate development of the races). The 1990s brought an end to apartheid politically and ushered in black majority rule. The former home countries Ciskei, Transkei, Bophuthatswana and Venda are no longer in existence and are now under one national government.

General:

Name : Republic of South Africa / Republiek Suid Afrika
Capital: Pretoria; note - Cape Town is the legislative center and Bloemfontein the judicial center
South Africa has nine provinces: Eastern Cape, Gauteng, Free State KwaZulu-Natal, Mpumalanga, Northern Cape, Limpopo (previously Northern Province), North West and Western Cape.

Military branches:

South African National Defense Force (including Army, Navy, Air Force, and Medical Services), South African Police Service.

Intelligence:

National Intelligence Coordinating Committee (NICOC)
South African National Defence Force Intelligence Division (SANDF)
National Intelligence Agency (NIA)
National Investigation Service (NIS)
South African Secret Service (SASS)

South African Police Service (SAPS)

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::: INTELLIGENCE ACTS

The members of the current South African intelligence organisations and their powers were laid down in the Intelligence Services Act - Wet op Nasionale Strategiese Intelligensie- (#38, 2 Dec 1994), and in the Amendment to the National Strategic Intelligence Act #39 of 1998), and Act #64 of 1996: the Security Officers Amendment Act.

I have extracted a couple of the most interesting parts of these acts.

Extracts from ACT NO. 38 OF 1994: INTELLIGENCE SERVICES ACT.

.... To regulate the establishment, organisation and control of the National Intelligence Agency and the South African Secret Service; and to provide for matters connected therewith.

CHAPTER II

Establishment, composition and organisation of Agency and Service.

There is hereby established a National Intelligence Agency and a South African Secret Service, which shall consist of:

- a) the persons who, on the date of the commencement of this Act, are members of the Bureau as defined in section I of the Bureau for State Security Act, 1978 (Act No.104 of 1978);
- b) the persons who, on the date of the commencement of this Act, are members of the Department of Intelligence and Security of the African National Congress;
- c) the persons who, on the date of the commencement of this Act are members of the Bophuthatswana Internal Intelligence Service by virtue of their appointment in terms of the Bophuthatswana Internal Intelligence Service Act, 1982 (Act No.25 of 1982), or are appointed in terms of section 15 of the National Security Council Act, 1981 (Act No.27 of 1981), of Bophuthatswana;
- d) the persons who, on the date of the commencement of this Act, are members of the Transkei Intelligence Service by virtue of their appointment in terms of the Intelligence Service and State Security Council Act, 1987 (Act No.67 of 1987), of Transkei;
- e) the persons who, on the date of the commencement of this Act, are

members of the Venda National Intelligence Service by virtue of their appointment in terms of the National Intelligence Service Act, 1988 (Act No.31 of 1988), of Venda; the persons who, immediately before the commencement of the Constitution of the Republic of South Africa, 1993 (Act No.200 of 1993), were members of any intelligence service or intelligence structure of Venda.

Excerpts from ACT NO.39 OF 1994: NATIONAL STRATEGIC INTELLIGENCE ACT.

2.1 The functions of the Agency shall, subject to section 3, be:

- a) to gather, correlate, evaluate and analyse domestic intelligence, in order to:
 - 1) identify any threat or potential threat to the security of the Republic or its people;
 - 2) supply intelligence regarding any such threat to Nicoc;
- b) to fulfil the national counter-intelligence responsibilities and for this purpose to conduct and co-ordinate counter-intelligence and to gather, correlate, evaluate, analyse and interpret information regarding counter-intelligence in order to:
 - 1) identify any threat or potential threat to the security of the Republic or its people;
 - 2) inform the President of any such threat;
 - 3) supply (where necessary) intelligence relating to any such threat to the South African Police Service for the purposes of investigating any offence or alleged offence; and
- c) to gather departmental intelligence at the request of any interested department of State, and, without delay to evaluate and transmit such intelligence and any other intelligence at the disposal of the Agency and which constitutes departmental intelligence, to the department concerned.

2.2 It shall, subject to section 3, be the functions of the Service:

- a) to gather, correlate, evaluate and analyse foreign intelligence, excluding foreign military intelligence, in order to:
 - 1) identify any threat or potential threat to the security of the Republic or its people;
 - 2) supply intelligence relating to national strategic intelligence to Nicoc;
- b) to institute counter-intelligence measures within the Service; and
- c) to gather departmental intelligence at the request of any interested department of State, and, without delay to evaluate and transmit

such intelligence and any other intelligence at the disposal of the Service and which constitutes departmental intelligence, to the department concerned.

2.3 It shall be the function of the South African Police Service, subject to section 3:

- a) to gather, correlate, evaluate and use crime intelligence in support of the functions of the South African Police Service as contemplated in section 215 of the Constitution; and
- b) to institute counter-intelligence measures within the South African Police Service, in order to supply crime intelligence relating to national strategic intelligence to Nicoc.

2.4 The National Defence Force shall, subject to section 3:

- a) gather, correlate, evaluate and use foreign military intelligence, and supply foreign military intelligence relating to national strategic intelligence to Nicoc, but the National Defence Force shall not gather intelligence of a non-military nature in a covert manner;
- b) gather, correlate, evaluate and use domestic military intelligence excluding covert collection, except when employed for service referred to in section 227(1)(e) of the Constitution and under conditions set out in section 3(2) of this Act, and supply such intelligence to Nicoc; and
- c) institute counter-intelligence measures within the National Defence Force.

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::: INTELLIGENCE AGENCIES

★ Ministry for Intelligence Services

The Ministry for Intelligence Services was established on 1 September 1996 and assists the Minister for Intelligence in the supervision and superintendence of the intelligence services; policy formulation; guidance and direction of the transformation process, and the general conduct of intelligence. The National Strategic Intelligence Amendment Act, 1998 (Act 37 of 1998), was approved by the National Council of Provinces in August 1998. In terms of the Act, the Minister would have to ensure effective cooperation between the civilian intelligence services (National Intelligence Agency (NIA) and South African Secret Service (SASS)), the South African National Defence Force (SANDF) and

the South African Police Services (SAPS), in consultation with the relevant Ministers.

Executive control is exercised by way of a civilian Ministry and a Cabinet committee. The civilian intelligence services are accountable to the Minister of Intelligence, who reports to the Cabinet through the Cabinet Committee for Security and Intelligence Affairs.

Parliament has also appointed a mechanism, the Joint Standing Committee on Intelligence (JSCI), legislated in the Intelligence Services Control Act, 1994 (Act 40 of 1994), which is able to order investigations into the intelligence community's activities.

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* National Intelligence Coordinating Committee - NICOC

The NICOC was established on 1 January 1995 in accordance with the National Strategic Intelligence Act, 1994 (Act 39 of 1994).

NICOC consist of the Intelligence Coordinator as well as directors-general of the civilian intelligence bodies - the National Intelligence Agency (NIA) and the South African Secret Service (SASS); the Chief of the Intelligence Division of the South African National Defence Force (SANDF), and the Head of the Division: Crime Intelligence of the South African Police Services (SAPS).

NICOC is also supported by a staff complement which is responsible for day-to-day coordination.

In terms of the Act, NICOC is required to coordinate intelligence supplied by the members of the national intelligence structures and to produce and disseminate intelligence with regard to matters of national strategic importance. In order to facilitate coordination, NICOC has established Provincial Intelligence Coordination Committees (PICOC's) in the nine provinces and several functional committees.

NICOC's direct clients are the President, the Cabinet and the Cabinet Committee for Security and Intelligence Affairs. Other clients include government departments, Premiers, provincial governments and parliamentary committees.

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* National Intelligence Agency - NIA

The Intelligence Services Act, 1994 (Act 38 of 1994), resulted in an amalgamation of the following intelligence organisations: National

Intelligence Service (NIS), Pan Africanist Congress (PAC), Department of Intelligence and Security (DIS), Pan African Security Service (PASS), the former intelligence services of Transkei, Bophuthatswana and Venda, and the security service of the African National Congress (ANC).

The above mentioned organisations formed the new NIA. The Agency gathers, correlates, evaluates and analyses domestic intelligence to identify threats or potential threats to the security of the Republic or its people, and to supply intelligence regarding any such threat to NICOC.

National counter-intelligence responsibilities include conducting and coordinating counter-intelligence, gathering, correlating, evaluating, analysing and interpreting information regarding counter-intelligence to identify threats or potential threats to the security of South Africa or its people. The Agency supplies intelligence relating to such threats to the South African Police Service for the purposes of investigating any offence or alleged offence.

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* South African Secret Service - SASS

The SASS is responsible for foreign intelligence. It has sections for counter-intelligence and internal security. The mission of the SASS is to gather, correlate, evaluate and analyse foreign intelligence, excluding foreign military intelligence, in order to identify any threat or potential threat to the security of South Africa and to supply intelligence relating to national strategic intelligence to NICOC. The SASS is also responsible for counter-intelligence measures within the Service.

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* South African Police Service - SAPS
National Investigation Service - NIS

In 1994 the South African Police (SAP) and 10 former homeland agencies amalgamated and the South African Police Service (SAPS) was formed.

The National Investigation Service is the unit of the SAPS that is charged with conducting and coordinating investigations of counter-intelligence offenses referred to it by the National Intelligence Agency. The NIS also gathers, correlates, evaluates and uses crime intelligence in support of the functions of the SAPS and is responsible for counter-intelligence measures within the SAPS, in order to supply crime intelligence relating to national strategic intelligence to NICOC.

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* Civilian Secretariat for Safety and Security

The need for a Civilian Secretariat for Safety and Security was identified by the Minister for Safety and Security in 1994. This resulted in the inclusion of a chapter defining the role of the Secretariat in the South African Police Services Act of 1995. The Secretariat immediately took over most of the activities of the Interim Advisory Team on the Amalgamation, Rationalisation and Transformation of the South African Police Service (SAPS), which had been established in May 1994.

The tasks of the Secretariat are:

- Advise the Minister of Safety and Security in the exercise of his or her powers and the performance of his or her duties and functions;
- Perform such functions as the Minister may consider necessary or expedient to ensure civilian oversight of the South African Police Service;
- Promote and facilitate participation by the South African Police Service in the Reconstruction and Development Programme;
- Provide the Minister with legal services and advice on constitutional matters; and
- Provide the Minister with communication, support and administrative services.

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* South African National Defence Force Intelligence Division - SANDF

The South African National Defence Force (SANDF) came into being on 27 April 1994. The 1993 Constitution stipulates that the SANDF will be used to defend the country against external and internal threats. The SANDF integrates the former South African Defence Force (SADF) with the military wings of the African National Congress (ANC), Pan Africanist Congress (PAC) and the armies of the former homelands.

The SANDF consists of four arms - the Army, Air Force, Navy and Medical Service. SANDF's Intelligence Division gathers, correlates, evaluates and uses foreign military intelligence, and supplies foreign military intelligence relating to national strategic intelligence to NICOC. It is also responsible for counter-intelligence measures within the National Defence Force.

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Sources:

The official websites of the South African Government, SANDF, NIA and SAPS.

www.gov.za/sss/index.html

www.nia.org.za

www.saps.org.za/

www.gov.za/ministry/intelligence.php

www.mil.za/

Further: Federation of American Scientists (www.fas.org),
CIA World Factbook,
Library of Congress Country Studies
(<http://geoinfo.amu.edu.pl/wpk/locsc/cshome.html>)

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* INTELLIGENCE NEWS *

::: CUBA / USA

In the U.S. Department of State Fact Sheet from 30 June you can read about a number of successful Cuban infiltrations in the USA. Note that both Ana Montes and the Wasp-spies received info via Cuban numbers stations.

A few quotes:

- 1) Ana Montes, a Defense Intelligence Agency analyst, confessed to spying for Cuba for 16 years (from 1985 to the time of her arrest on September 21, 2001).
- 2) Seven Cuban spies, the so-called Wasp Network, were convicted of or confessed to espionage or related crimes in June and September 2001. The group sought to infiltrate U.S. Southern Command headquarters.
- 3) An INS official, provided information in 2000 in a sting operation, thereafter passed the information to a business associate with ties to Cuban intelligence.
- 4) Over a 15-year period from 1983 to 1998, 15 members of the Cuban mission to the United Nations were expelled for espionage activities, including three who were handlers for the Wasp Network in 1998.
- 5) Cuban spies have also found considerable success penetrating U.S.-based exile groups. A notable example is that of Juan Pablo Roque, a former MiG-23 pilot who defected to the United States in 1992, became a paid source for the FBI, and joined the ranks of the Brothers to the Rescue (BTTR). He re-defected back to Cuba just days after the early 1996 BTTR shoot down, denouncing the exile

group on Cuban television and accusing it of planning terrorist attacks against Cuba and Castro.

- 6) A similar example involves the case of Jose Rafael Fernandez Brenes, who jumped ship from a Cuban merchant vessel in 1988. From 1988-1991, he helped establish and run the U.S. Government-financed TV Marti, whose signal was jammed from its inception in March 1990, due in part to frequency and technical data provided by Fernandez Brenes.

Source: U.S. Department of State Fact Sheets
<http://www.state.gov/>

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::: CHINA / USA / CANADA

The Federal Bureau of Investigation (FBI) said this week that China will be the greatest espionage threat to North America during the next 10 years to 15 years, reports Canada's Asian Pacific Post. FBI Director Robert Mueller told the United States Congress that China has more than 3,000 "front" companies in America coordinating direct espionage efforts.

In Canada, intelligence reports indicate the number of Chinese front companies to be between 300 and 500. But unlike America, Canada's China experts say the political climate in Ottawa is not conducive to cracking down on the threat.

Source: China Reform Monitor No. 507, August 14, 2003
American Foreign Policy Council, Washington, DC
<http://www.afpc.org>

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* LOGS SECTION *

2680	M22	4XZ. Israeli navy Haifa CW 04-08-03 2045 (HPT)
2680	M22	4XZ. Israeli navy Haifa CW 06-08-03 0057 (PILE)
3025.0	M08a	ID 70322 46762 32483 CW 30-08-03 Sat 1000 (MS)
3244.0	M08a	ID 70322 46762 32483 CW 30-08-03 Sat 1000 (MS)
3292.0	V02a	missed preamble, into message, strong/readable, distorted, as usual, USB 05-08-03 Tue 0200 (CA2)
3292.0	V02a	SS YL, ending "Final, final, final." USB 26-08-03 Tue 0200 (DM)
3292.0	V02a	missed callup, fair signal/mostly readable USB 26-08-03 Tue 0200 (CA2)
3415	E10	in progress AM 18-08-03 1939 (RGA)
3416.0	E10	ART USB 03-08-03 Sun 1930 (JAQ)

3416.0 E10 ART USB 03-08-03 Sun 2130 (JAQ)
3416.0 E10 ART 45 ?NIFS//5435 USB 13-08-03 Wed 2030 (JAQ)
3416.0 E10 ART 76 REQFE//5435 USB 13-08-03 Wed 2130 (JAQ)
3416.0 E10 ART 75 MJ??V//5435 USB 16-08-03 Sat 1830 (JAQ)
3416.0 E10 ART 75 MJCDV//5435 USB 17-08-03 Sun 1830 (JAQ)
3756 S30 Pip + message USB 24-08-03 1736 (MG)
3756 S30 the pip CW 24-08-03 Sun 2026 (AB)
3772.0 MX channel marker "P" Kalingrad CW 29-08-03 Fri 0022
3772.0 MX channel marker "P" Kalingrad CW 29-08-03 Fri 0022
3808 M10 555 968 35 872 35 CW 07-08-03 0400 (PB)
3808 M10 555 201 20 242 21 CW 18-08-03 0400 (PB)
3808 M10 same msg as 18-8 CW 19-08-03 0400 (PB)
3808 M10 555 201-67/20=02643 242-~~##~~/21=~~#####~~ //5860 CW
19-08-03 Tue 0400 (HFD)
3808 M10 555 872-95/37 15842 421-42/21=~~##~~293 //5860 CW
25-08-03 Mon 0400 (HFD)
3822.0 XM whales on the air with good weak USB 29-08-03 Fri 0022
3822.0 XM whales on the air with good weak USB 29-08-03 Fri 0022
3828.9 XSW Squeaky Wheel channel marker 16-08-03 Sat 2210 (AB)
3840.0 E10 YHF in tfc USB 21-08-03 Thu 0330 (BS4)
3858.0 XM whales on the air with good weak QRM with ARQ-E
station USB 29-08-03 Fri 0022 (LC2)
3858.0 XM whales on the air with good weak QRM with ARQ-E
station USB 29-08-03 Fri 0022 (LC2)
4017.0 V02a missed preamble, into message, strong/readable,
extremely distorted USB 05-08-03 Tue 0300 (CA2)
4027.0 M08a (transmission garbled, no copy) CW 09-08-03 Sat 1100
4027.0 M08a ID 70322 46762 32483 (rpt of 1000z on 3244m) CW
30-08-03 Sat 1100 (MS)
4028.0 M08a ID 67773 83472 79573 (not a harmonic. M8a just //
broadcasting on two different CW 09-08-03 Sat 0300
4028.0 V02a strong signal, into message, distorted as usual, but
not real bad USB 08-08-03 Fri 0100 (CA2)
4028.0 V02a (in progress. M8a blocking out. YL/SS) USB 09-08-03
Sat 0300 (MS)
4031.0 MX channel marker "P" Kalingrad CW 29-08-03 Fri 0022
4034.0 V02a missed callup, into message, poor/fair signal USB
27-08-03 Wed 1200 (CA2)
4051 M13b 659 CW 09-08-03 2100 (JP)
4051 M13b 659 CW 10-08-03 2100 (JP)
4051 M13B 659 0 CW 24-08-03 Sun 2100 (HFD)
4241 M22 4XZ. Israeli navy Haifa CW 23-08-03 2229 (AJP)
4241 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
4270.0 E10 PCD 21 WTS?U USB 03-08-03 Sun 1930 (JAQ)
4270.0 E10 PCD USB 03-08-03 Sun 2130 (JAQ)
4270.0 E10 PCD USB 08-08-03 Fri 1830 (JAQ)
4270.0 E10 PCD 12 ZZN XO USB 08-08-03 Fri 1930 (JAQ)
4270.0 E10 PCD2 USB 13-08-03 Wed 2030 (JAQ)

4270.0 E10 PCD 67 CYLPI USB 17-08-03 Sun 1830 (JAQ)
 4270.0 E10 PCD USB 20-08-03 Wed 0230 (BS4)
 4325.8 MX Channel marker "R", Izhevsk CW 24-08-03 Sun 2019 (AB)
 4331 M22 4XZ. Israeli navy Haifa CW 04-08-03 2125 (HPT)
 4331 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
 4360.0 E10 MIW2//6930 USB 03-08-03 Sun 1915 (JAQ)
 4360.0 E10 MIW2//6930 USB 07-08-03 Thu 2215 (JAQ)
 4360.0 E10 MIW2 USB 08-08-03 Fri 1915 (JAQ)
 4360.0 E10 MIW2//6930 USB 13-08-03 Wed 2115 (JAQ)
 4360.0 E10 MIW2 USB 15-08-03 Fri 2115 (JAQ)
 4360.0 E10 MIW2//6930, 7605 USB 25-08-03 Mon 0115 (BS4)
 4461.0 E10 FTJ USB 01-08-03 Fri 0300 (BS4)
 4461.0 E10 FTJ2 USB 20-08-03 Wed 0300 (BS4)
 4461.0 E10 FTJ USB 25-08-03 Mon 0100 (BS4)
 4474.9 MX channel marker "P" Kalingrad CW 29-08-03 Fri 0022
 4478.0 M08a (in progress) ----- 14851 ----- CW 09-08-03 Sat 1100
 4478.0 M08a ID 73942 39211 00593 CW 30-08-03 Sat 1100 (MS)
 4479.0 V02a strong signal, S7, distorted USB 06-08-03 Wed 0300
 4479.0 V02a missed callup, strong signal, into message USB
 27-08-03 Wed 0300 (CA2)
 4485 S10D AM 04-08-03 2020 (PP1)
 4503 M18 0219 0220 0221 etc CW 26-08-03 Tue 2119 (AB)
 4507.0 V02a (in progress - missed callup - YL/SS) USB 30-08-03 Sat
 1100 (MS)
 4560.0 E10 YHF in tfc USB 21-08-03 Thu 0330 (BS4)
 4615 M13c 751 = 229 2 = 53226 CW 21-08-03 2100 (JP)
 4625 S28 Buzzer AM 24-08-03 1759 (MG)
 4625 S28 the buzzer 24-08-03 Sun 2025 (AB)
 4648.0 E10 KPA2//5339 USB 03-08-03 Sun 1915 (JAQ)
 4648.0 E10 KPA2//5339 USB 07-08-03 Thu 2215 (JAQ)
 4648.0 E10 KPA2 USB 08-08-03 Fri 1915 (JAQ)
 4648.0 E10 KPA2//5339 USB 13-08-03 Wed 2115 (JAQ)
 4648.0 E10 KPA2 USB 15-08-03 Fri 2115 (JAQ)
 4648.0 E10 KPA2//5339 USB 16-08-03 Sat 1915 (JAQ)
 4648.0 E10 KPA2 USB 25-08-03 Mon 0115 (BS4)
 4780.0 E10 SYN 2 AM 29-08-03 Fri 0022 (LC2)
 4780.0 E10 SYN 2 AM 29-08-03 Fri 0022 (LC2)
 4783 S11B 972/00 USB 21-08-03 0500 (AF)
 4880 E10 ULX AM 18-08-03 2102 (RGA)
 4880.0 E10 E10, Calling ULX, weak/mostly unreadable USB 05-08-03
 Tue 0200 (CA2)
 4880.0 E10 ULX USB 06-08-03 Wed 0230 (BS4)
 4880.0 E10 E10, weak/mostly unreadable, into message USB 08-08-03
 Fri 0100 (CA2)
 4880.0 E10 ULX 85 VFHVN USB 08-08-03 Fri 0200 (BS4)
 4880.0 E10 E10, into message, fair/mostly readable USB 08-08-03
 Fri 0200 (CA2)
 4880.0 E10 ULX2 USB 16-08-03 Sat 0330 (GG)

4880.0 E10 ULX USB 20-08-03 Wed 0230 (BS4)
 4880.0 E10 ULX USB 25-08-03 Mon 0030 (BS4)
 4973 S21 793 instead of the usual 973 AM 19-08-03 1746 (RiN)
 5057.5 378 5FGs 378 callup = 262 262 = 5FGs. Chirpy signal CW
 18-08-03 2110 (RGA)
 5070 M13 378 = 262 21 = 36748 CW 16-08-03 2100 (JP)
 5091.0 E10 2 msgs : 11 ?????/41 GHLPE USB 02-08-03 Sat 2202 (GG)
 5091.0 E10 JSR2 USB 22-08-03 Fri 2030 (GG)
 5091.0 E10 JSR USB 25-08-03 Mon 2200 (GG)
 5153.7 MX Cluster beacon "D", Odessa CW 30-08-03 Sat 2135 (AB)
 5154 MX Cluster beacon "C", Moscow CW 24-08-03 Sun 2015 (AB)
 5159 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
 5170.0 E10 VLB2 USB 03-08-03 Sun 1945 (JAQ)
 5170.0 E10 VLB2//7690 USB 07-08-03 Thu 0145 (BS4)
 5170.0 E10 VLB2 USB 07-08-03 Thu 2245 (JAQ)
 5170.0 E10 VLB2 USB 08-08-03 Fri 1945 (JAQ)
 5170.0 E10 VLB2 USB 13-08-03 Wed 2145 (JAQ)
 5170.0 E10 VLB2 USB 15-08-03 Fri 2145 (JAQ)
 5170.0 E10 VLB2 USB 16-08-03 Sat 1945 (JAQ)
 5170.0 E10 VLB2 USB 17-08-03 Sun 1845 (JAQ)
 5221.5 M21 Russian Air Defense =99 strings CW 26-08-03 Tue 2054
 5230.0 E10 CI02 USB 03-08-03 Sun 1945 (JAQ)
 5230.0 E10 CI02 USB 07-08-03 Thu 0145 (BS4)
 5230.0 E10 CI02 USB 07-08-03 Thu 2245 (JAQ)
 5230.0 E10 CI02 USB 08-08-03 Fri 1945 (JAQ)
 5230.0 E10 CI02 USB 13-08-03 Wed 2145 (JAQ)
 5230.0 E10 CI02//7811 USB 15-08-03 Fri 2145 (JAQ)
 5230.0 E10 CI02 USB 16-08-03 Sat 1945 (JAQ)
 5230.0 E10 CI02 USB 17-08-03 Sun 1845 (JAQ)
 5339 E10 KPA2 AM 18-08-03 2117 (RGA)
 5339.0 E10 KPA2//4648 USB 03-08-03 Sun 1915 (JAQ)
 5339.0 E10 KPA2//4648 USB 07-08-03 Thu 2215 (JAQ)
 5339.0 E10 KPA2 USB 08-08-03 Fri 1815 (JAQ)
 5339.0 E10 KPA2//4648 USB 13-08-03 Wed 2115 (JAQ)
 5339.0 E10 KPA2 USB 15-08-03 Fri 2215 (JAQ)
 5339.0 E10 KPA2//4648 USB 16-08-03 Sat 1915 (JAQ)
 5339.0 E10 KPA2 USB 17-08-03 Sun 1815 (JAQ)
 5358 S11A 971/00 AM 06-08-03 Wed 2100 (HFD)
 5373 S21 793 instead of the usual 973 AM 19-08-03 1746 (RiN)
 5417.0 V02a In prog AM 22-08-03 Fri 0208 (BM)
 5434.6 XM strong signal, still going at 3:30z USB 05-08-03 Tue
 0100 (CA2)
 5434.6 XM Pretty strong signal, S5, still on at 3:00z USB
 07-08-03 Thu 0200 (CA2)
 5434.6 XM strong signal, on again tonight USB 08-08-03 Fri 0100
 5434.9 E10 ART 85 SNIFS USB 22-08-03 Fri 2030 (GG)
 5435.0 E10 ART2 USB 03-08-03 Sun 1900 (JAQ)
 5435.0 E10 ART 65 IRJDI USB 03-08-03 Sun 1930 (JAQ)

5435.0 E10 ART 36 RKCSX USB 03-08-03 Sun 2000 (JAQ)
5435.0 E10 ART 90 TLBBE USB 03-08-03 Sun 2130 (JAQ)
5435.0 E10 E10, XM covering E10 up, Calling ART USB 05-08-03 Tue 0130 (CA2)
5435.0 E10 E10, XM covering E10 up, Calling ULX fair/mostly readable USB 05-08-03 Tue 0200 (CA2)
5435.0 E10 E10, weak signal, covered by into message USB 07-08-03 Thu 0200 (CA2)
5435.0 E10 ART 75 LYNTZ USB 07-08-03 Thu 2200 (JAQ)
5435.0 E10 ART 19 KETRO USB 07-08-03 Thu 2300 (JAQ)
5435.0 E10 ART 41 ?WCJM USB 07-08-03 Thu 2330 (JAQ)
5435.0 E10 ART2 USB 08-08-03 Fri 0005 (JAQ)
5435.0 E10 ART 76 LYNTK USB 08-08-03 Fri 0200 (BS4)
5435.0 E10 E10, into message, fair/mostly readable USB 08-08-03 Fri 0200 (CA2)
5435.0 E10 ART2 USB 08-08-03 Fri 1800 (JAQ)
5435.0 E10 ART 91 MGMES USB 08-08-03 Fri 1830 (JAQ)
5435.0 E10 ART2 USB 08-08-03 Fri 1900 (JAQ)
5435.0 E10 ART 29 GBKRO USB 08-08-03 Fri 1930 (JAQ)
5435.0 E10 ART (93?) HTPKN USB 08-08-03 Fri 2000 (JAQ)
5435.0 E10 ART 45 ?NIFS//3416 USB 13-08-03 Wed 2030 (JAQ)
5435.0 E10 ART2 USB 13-08-03 Wed 2100 (JAQ)
5435.0 E10 ART 76 REQFE//3416 USB 13-08-03 Wed 2130 (JAQ)
5435.0 E10 ART2 USB 15-08-03 Fri 2100 (JAQ)
5435.0 E10 ART 76 RXQFE USB 15-08-03 Fri 2130 (JAQ)
5435.0 E10 ULX2 note: normal RF for ART USB 15-08-03 Fri 2200
5435.0 E10 ART 95 MHPCH USB 15-08-03 Fri 2230 (JAQ)
5435.0 E10 ART 75 MJ??V//3416 USB 16-08-03 Sat 1830 (JAQ)
5435.0 E10 ART2 USB 16-08-03 Sat 1900 (JAQ)
5435.0 E10 ART 48 XKDUQ USB 16-08-03 Sat 1930 (JAQ)
5435.0 E10 ART 28 XKDYQ USB 16-08-03 Sat 2000 (JAQ)
5435.0 E10 ART2 USB 17-08-03 Sun 1800 (JAQ)
5435.0 E10 ART 75 MJCDV//3416 USB 17-08-03 Sun 1830 (JAQ)
5435.0 E10 ART2 USB 19-08-03 Tue 0130 (BS4)
5435.0 E10 ART USB 21-08-03 Thu 0130 (BS4)
5435.0 E10 ART 2 msgs: 79 IAVZR/48 QZETX USB 22-08-03 Fri 2230 (GG)
5435.0 E10 ART2 USB 25-08-03 Mon 0005 (BS4)
5435.0 E10 ART USB 25-08-03 Mon 0130 (BS4)
5435.0 E10 ART USB 25-08-03 Mon 2200 (GG)
5435.0 E10 E10, missed callup, poor/fair signal, under XM USB 27-08-03 Wed 0200 (CA2)
5435.0 XM jamming E10 at 2:20z USB 27-08-03 Wed 0220 (CA2)
5435.6 XM on again tonight, weird station, strong signal, S5 USB 06-08-03 Wed 0100 (CA2)
5436.7 E10 ART 19 MUPTW USB 02-08-03 Sat 0032 (GG)
5436.7 E10 ART 73 RKZXH USB 12-08-03 Tue 0032 (GG)
5436.7 E10 ART 73 RKZXH USB 14-08-03 Thu 0032 (GG)

5437.0 E10 ART a bit off frequency USB 03-08-03 Sun 0030 (GG)
5437.0 E10 ART 19 MUPTW USB 04-08-03 Mon 0030 (GG)
5437.0 E10 ART 19 MUPTW USB 05-08-03 Tue 0030 (GG)
5437.0 E10 ART2 USB 07-08-03 Thu 0031 (GG)
5437.0 E10 ART 118 COYYK USB 08-08-03 Fri 0032 (GG)
5437.0 E10 ART 118 COYYK USB 09-08-03 Sat 0032 (GG)
5437.0 E10 ART 118 COYYK USB 10-08-03 Sun 0032 (GG)
5437.0 E10 ART USB 15-08-03 Fri 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 16-08-03 Sat 0030 (GG)
5437.0 E10 ART a bit off frequency with a 73 group msg USB
17-08-03 Sun 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 18-08-03 Mon 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 19-08-03 Tue 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 21-08-03 Thu 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 23-08-03 Sat 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 24-08-03 Sun 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 25-08-03 Mon 0030 (GG)
5437.0 E10 ART barely readable (disastrous propagation) USB
26-08-03 Tue 0030 (GG)
5437.0 E10 ART 73 RKZXH USB 28-08-03 Thu 0030 (GG)
5437.0 E10 ART 8 MCF CJ USB 30-08-03 Sat 0030 (GG)
5437.0 E10 ART 52 EEUFV USB 31-08-03 Sun 0030 (GG)
5465.8 MX Channel marker "R", Izhevsk CW 24-08-03 Sun 2019 (AB)
5622 M13 411 CW 03-08-03 2030 (JP)
5622 M13 411= 252 20 = CW 16-08-03 2030 (JP)
5622 M13 411 CW 17-08-03 Sun 2030 (HFD)
5622.0 M13 411 (R5) (too weak for further copy) CW 03-08-03 Sun
5745 S06 724 0 E03 on 5746 AM 26-08-03 Tue 1800 (HFD)
5762.0 V02a (in progress) ----- 95362 (YL/SS) USB 09-08-03
Sat 0426 (MS)
5762.0 V02a ID 52623 5034. 30992 (YL/SS) USB 30-08-03 Sat 0400
5763.0 M08a (in progress, no addresses) CW 09-08-03 Sat 0426 (MS)
5820.0 E10 YHF ?4 ?Z?PR heavy QRN USB 10-08-03 Sun 2100 (GG)
5820.0 E10 YHF2 heavy QRN USB 10-08-03 Sun 2130 (GG)
5820.0 E10 YHF 64 KL?DQ heavy QRN USB 10-08-03 Sun 2200 (GG)
5820.0 E10 YHF 17 YNCTF//7918 USB 19-08-03 Tue 0130 (BS4)
5860 M10 555 201-67/20=02643 242-###/21=##### //3808 CW
19-08-03 Tue 0400 (HFD)
5860 M10 555 872-95/37 15842 421-42/21=###293 //3808 CW
25-08-03 Mon 0400 (HFD)
5883.0 V02a (in progress) ----- (YL/SS) USB 09-08-03
Sat 0500 (MS)
5883.0 V02a ID 52623 50347 30992 (YL/SS) (rpt of 0400z on 5762m)
USB 30-08-03 Sat 0500 (MS)
5945 M10 555 477-71/38=05###3 470-###/###=##### //9386 CW
16-08-03 Sat 0700 (HFD)
6270.0 E10 ULX2 USB 03-08-03 Sun 1930 (JAQ)
6270.0 E10 ULX 56 GPZPP USB 03-08-03 Sun 2130 (JAQ)

6270.0 E10 ULX USB 08-08-03 Fri 1830 (JAQ)
6270.0 E10 ULX2 USB 08-08-03 Fri 1930 (JAQ)
6270.0 E10 ULX 80 TE??M USB 13-08-03 Wed 2030 (JAQ)
6270.0 E10 ULX 61 RGXDR USB 16-08-03 Sat 1830 (JAQ)
6270.0 E10 ULX2 USB 16-08-03 Sat 1930 (JAQ)
6270.0 E10 ULX USB 17-08-03 Sun 1830 (JAQ)
6270.0 E10 ULX2 USB 18-08-03 Mon 2200 (GG)
6270.0 E10 ULX 42 ??UC? USB 18-08-03 Mon 2300 (GG)
6270.0 E10 ULX 27 STMOZ//7760 USB 20-08-03 Wed 0300 (BS4)
6270.0 E10 ULX 14 AGLWE USB 20-08-03 Wed 2300 (GG)
6270.0 E10 ULX 14 AGLWE USB 21-08-03 Thu 2300 (GG)
6270.0 E10 ULX 27 STMOZ//7760 USB 25-08-03 Mon 0100 (BS4)
6379 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
6385 M13 254 CW 06-08-03 Wed 2100 (HFD)
6385 M13 245 237 22 CW 21-08-03 2100 (JP)
6498.0 E10 PCD2 USB 21-08-03 Thu 0330 (BS4)
6498.0 E10 PCD USB 25-08-03 Mon 0030 (BS4)
6715.0 E15? E15?, Possible English Man? very weak/unreadable USB
05-08-03 Tue 1630 (CA2)
6758 S17C 56035 AM 02-08-03 Sat 1250 (HFD)
6758 S17C 67038 AM 03-08-03 Sun 1250 (HFD)
6758 S17C 39058 AM 05-08-03 Tue 1250 (HFD)
6758 S17C 91034 AM 12-08-03 Tue 1250 (HFD)
6758 S17C 69035 AM 15-08-03 Fri 1250 (HFD)
6758 S17C 69039 AM 16-08-03 Sat 1250 (HFD)
6758 S17C 78039 AM 20-08-03 Wed 1250 (HFD)
6758 S17C 70038 AM 24-08-03 Sun 1250 (HFD)
6758 S17C 84033 AM 26-08-03 Tue 1250 (HFD)
6758 S17C 96036 AM 27-08-03 Wed 1250 (HFD)
6758 S17C 68037 AM 28-08-03 Thu 1250 (HFD)
6758 S17C 75036 AM 30-08-03 Sat 1250 (HFD)
6758 S17C 69040 AM 31-08-03 Sun 1250 (HFD)
6780 M10 555 319-79/40=10984 021-12/40=00403 CW 16-08-03 Sat
0410 (HFD)
6780.0 M10 555x3 704x3 29 189x3 39 (R5) (rpt of 0210z on 7380m)
CW 09-08-03 Sat 0410 (MS)
6780.0 M10 555x3 486x3 32 367x3 16 (R5) (rpt of 0210z on 7380m)
CW 30-08-03 Sat 0410 (MS)
6804 E10 07-08-03 2100 (CD)
6804 X06 Mazielka calls 07-08-03 2100 (CD)
6840.0 E10 EZI2 USB 03-08-03 Sun 2000 (JAQ)
6840.0 E10 EZI USB 03-08-03 Sun 2130 (JAQ)
6840.0 E10 E10, Calling EZI, fair/mostly readable USB 05-08-03
Tue 0130 (CA2)
6840.0 E10 E10, into message, fair/kinda readable USB 06-08-03
Wed 0130 (CA2)
6840.0 E10 EZI 77 OBODD, 54 RGDRV//9130 USB 06-08-03 Wed 0230
(BS4)

6840.0 E10 EZI 66 BHMVM//9130, 11565 USB 07-08-03 Thu 0130 (BS4)
6840.0 E10 EZI 76 VIKCL//9130 USB 07-08-03 Thu 2200 (JAQ)
6840.0 E10 EZI 88 UWDNE//9130, 11565 USB 07-08-03 Thu 2330 (JAQ)
6840.0 E10 EZI2 AM 08-08-03 Fri 0100 (DM)
6840.0 E10 EZI KRFFR //9130 AM 08-08-03 Fri 0130 (DM)
6840.0 E10 EZI 77 OBODD AM 08-08-03 Fri 0230 (DM)
6840.0 E10 EZI 114 CGHVE//9130 USB 08-08-03 Fri 1800 (JAQ)
6840.0 E10 EZI 86 WHEUI//9130 USB 08-08-03 Fri 1900 (JAQ)
6840.0 E10 EZI 10 DXMCJ//9130, 11565 USB 13-08-03 Wed 2130 (JAQ)
6840.0 E10 EZI 2 msgs: 76 OBODD/54 RGDR? USB 15-08-03 Fri 0230
(GG)
6840.0 E10 EZI 18 DXMCJ//11565 USB 15-08-03 Fri 2130 (JAQ)
6840.0 E10 EZI 77 AESFH//9130 USB 15-08-03 Fri 2200 (JAQ)
6840.0 E10 EZI 77 AESFH USB 16-08-03 Sat 2000 (JAQ)
6840.0 E10 EZI 114 CGHVE//9130 USB 17-08-03 Sun 1800 (JAQ)
6840.0 E10 EZI 73 QEXIG//9130 USB 17-08-03 Sun 1900 (JAQ)
6840.0 E10 EZI 77 AESFH USB 18-08-03 Mon 2200 (GG)
6840.0 E10 EZI 88 UWDNE USB 18-08-03 Mon 2330 (GG)
6840.0 E10 EZI 80 UOYW0//9130, 11565 USB 19-08-03 Tue 0130 (BS4)
6840.0 E10 EZI 114 CGHVE AM 19-08-03 Tue 1600 (JS3)
6840.0 E10 EZI 95 EVLDJ, ?? ?????//9130 USB 20-08-03 Wed 0230
(BS4)
6840.0 E10 EZI2//9130, 11565 USB 20-08-03 Wed 0300 (BS4)
6840.0 E10 EZI 77 AESFH USB 20-08-03 Wed 2200 (GG)
6840.0 E10 EZI 80 UOYW0//9130, 11565 USB 21-08-03 Thu 0130 (BS4)
6840.0 E10 EZI 107 BRAID USB 23-08-03 Sat 2030 (GG)
6840.0 E10 EZI 28 ULKEX//9130 USB 24-08-03 Sun 2130 (BS4)
6840.0 E10 EZI 77 AESFH//9130 USB 24-08-03 Sun 2200 (BS4)
6840.0 E10 EZI 88 UWDNE//9130, 11565 USB 24-08-03 Sun 2330 (BS4)
6840.0 E10 EZI2//9130, 11565 USB 25-08-03 Mon 0100 (BS4)
6840.0 E10 EZI 28 ULKEE//9130 USB 25-08-03 Mon 0130 (BS4)
6840.0 E10 EZI USB 25-08-03 Mon 2200 (GG)
6840.0 E10 EZI msg for gr 7 AM 29-08-03 Fri 0023 (LC2)
6840.0 E10 EZI msg for gr 7 AM 29-08-03 Fri 0023 (LC2)
6840.0 E10 EZI 90 PVCFL USB 29-08-03 Fri 2200 (GG)
6840.0 E10 EZI 90 PVCFL USB 30-08-03 Sat 2200 (GG)
6840.0 E10 EZI2 //9130//11565 USB 31-08-03 Sun 0100 (DM)
6912.0 E10 SYN2 USB 03-08-03 Sun 2045 (JS3)
6912.0 E10 SYN2//8025 USB 07-08-03 Thu 0145 (BS4)
6912.0 E10 SYN2 USB 08-08-03 Fri 1800 (JAQ)
6912.0 E10 SYN2 USB 08-08-03 Fri 1900 (JAQ)
6912.0 E10 SYN2 USB 08-08-03 Fri 2000 (JAQ)
6912.0 E10 SYN2 USB 15-08-03 Fri 2145 (JAQ)
6912.0 E10 english female voice; USB 24-08-03 Sun 2045 (MH)
6930 E10 MIW2 AM 21-08-03 0018 (AJP)
6930.0 E10 MIW2//4360 USB 03-08-03 Sun 1915 (JAQ)
6930.0 E10 MIW2//4360 USB 07-08-03 Thu 2215 (JAQ)
6930.0 E10 MIW2 USB 08-08-03 Fri 1815 (JAQ)

6930.0 E10 MIW2//4360 USB 13-08-03 Wed 2115 (JAQ)
6930.0 E10 MIW2 USB 15-08-03 Fri 2215 (JAQ)
6930.0 E10 MIW2 USB 16-08-03 Sat 1915 (JAQ)
6930.0 E10 MIW2 USB 17-08-03 Sun 1815 (JAQ)
6930.0 E10 MIW2 USB 17-08-03 Sun 1900 (JAQ)
6930.0 E10 MIW2//4340, 7605 USB 25-08-03 Mon 0115 (BS4)
6945.0 E03 Lincolnshire Poacher, english female voice, fair
signal USB 21-08-03 Thu 2130 (MH)
6959 E03 LP id 25942 USB 24-09-03 1900 (PP1)
6959.0 E03 66751 USB 02-08-03 Sat 2200 (GG)
6959.0 E03 Lincs. poacher; call 43438 USB 24-08-03 Sun 2100 (MH)
6959.0 E03 43438 USB 25-08-03 Mon 2200 (GG)
6959.0 E03 //9251 USB 28-08-03 Thu 2100 (DM)
7038.0 MX channel marker "D" Odessa CW 29-08-03 Fri 0023 (LC2)
7038.7 MX Cluster beacon "D", Odessa CW 24-08-03 Sun 2015 (AB)
7038.7 MX Cluster beacon "D" CW 01-09-03 0128 (SPM)
7038.9 MX Cluster beacon "S", Arkhangelsk CW 30-08-03 Sat 2149
7038.9 MX Cluster beacon "S" CW 01-09-03 0150 (SPM)
7039 MX Cluster beacon "C", Moscow CW 24-08-03 Sun 2015 (AB)
7337.0 E03 Lincs. Poacher; call 73644 USB 24-08-03 Sun 1800 (MH)
7380 M10 555 486-80/32=92441 200-10/24=32344 //10923 CW
25-08-03 Mon 1410 (HFD)
7380.0 M10 555x3 704x3 29 189x3 39 (R5) CW 09-08-03 Sat 0210 (MS)
7380.0 M10 555x3 486x3 32 367x3 16 (R5) CW 30-08-03 Sat 0210 (MS)
7475 S10D 555 776-08/28=80014 //9166 AM 16-08-03 Sat 2130 (HFD)
7540.0 E10 JSR2 USB 22-08-03 Fri 2030 (GG)
7559 M13 284 CW 01-08-03 Fri 2000 (HFD)
7559 M13 284 = 227 21 = 24821 CW 16-08-03 2000 (JP)
7605.0 E10 MIW2//4340, 6930 USB 25-08-03 Mon 0115 (BS4)
7608 S06 729 AM 1900 (PP1)
7668 M16 8BY CW 23-08-03 2046 (MSM)
7687 M13A 521 0 CW 26-08-03 Tue 2000 (HFD)
7690.0 E10 VLB2//5170 USB 07-08-03 Thu 0145 (BS4)
7739 E07 701 0 AM 01-08-03 Fri 0510 (HFD)
7739 E07 701 000 AM 22-08-03 0510 (PB)
7745 S10D 555 472-96/17=54695 //9165 AM 16-08-03 Sat 1520 (HFD)
7760.0 E10 E10, fair/mostly readable, into message USB 08-08-03
Fri 0100 (CA2)
7760.0 E10 ULX 27 STMOZ//6270 USB 20-08-03 Wed 0300 (BS4)
7760.0 E10 ULX 27 STMOZ//6270 USB 25-08-03 Mon 0100 (BS4)
7811.0 E10 CI02//5230 USB 15-08-03 Fri 2145 (JAQ)
7863.0 M08a ID 93073 40211 08991 CW 30-08-03 Sat 0800 (MS)
7918.0 E10 E10, Calling ???2, null message, weak/mostly
unreadable USB 05-08-03 Tue 0200 (CA2)
7918.0 E10 E10, Sounds like YEF, very weak/mostly unreadable USB
06-08-03 Wed 0200 (CA2)
7918.0 E10 YHF2 USB 06-08-03 Wed 0230 (BS4)
7918.0 E10 YHF 12 DXTAK USB 07-08-03 Thu 0130 (BS4)

7918.0 E10 E10, Calling EZI2, null message, fair/mostly readable
USB 08-08-03 Fri 0200 (CA2)
7918.0 E10 YHF 17 YNCTF//5820 USB 19-08-03 Tue 0130 (BS4)
7918.0 E10 YHF 2 msgs: 96 NQFQY/36 DXIQY USB 19-08-03 Tue 0200
(GG)
7918.0 E10 YHF2 USB 20-08-03 Wed 0230 (BS4)
7918.0 E10 YHF 17 YNCTF USB 21-08-03 Thu 0130 (BS4)
7918.0 E10 YHF 2 msgs: 96 NQFQY/36 DXIQY USB 21-08-03 Thu 0200
(GG)
7918.0 E10 YHF 8 SKZEJ USB 25-08-03 Mon 0130 (BS4)
7975.0 M08a (in progress - missed callup) CW 31-08-03 Sun 0800
8010.0 V02 In progress, missed beginning. Figures read faster
than last time. AM 08-08-03 Fri 0006 (DMc)
8010.0 V02a Weak signal, hard to make anything out AM 01-08-03 Fri
0006 (DMc)
8025 E10 SYN2 AM 23-08-03 2049 (MSM)
8025.0 E10 SYN2//6912 AM 07-08-03 Thu 0145 (BS4)
8063 M13 417 CW 10-08-03 1900 (JP)
8064 M13 417 CW 11-08-03 1900 (JP)
8064 M13 417 CW 25-08-03 Mon 1900 (HFD)
8095.0 V02 Did not catch signon. Signoff repeating "Final" 3
times, followed by 2 clicks. AM 09-08-03 Sat 0605
8097.0 V02a In prog AM 21-08-03 Thu 0543 (BM)
8097.0 V02a A 05103 13213 87881 AM 21-08-03 Thu 0600 (BM)
8097.0 V02a ID ----- 89501 85372 (YL/SS) AM 30-08-03 Sat 0600 (MS)
8103 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
8136.0 M08a (in progress) ----- 76932 27411 CW 09-08-03 Sat 1100
8136.0 M08a ID 73823 99342 75081 CW 30-08-03 Sat 1100 (MS)
8164 M13 629 CW 29-08-03 Fri 1500 (HFD)
8300 V13 New Star AM 24-08-03 (TFEI)
8313.0 XSL Japanese naval PSK modem in tlc; very strong USB
08-08-03 Fri 1231 (BM)
8340 Unid 2-second pip CW 31-08-03 Sun 1915 (AB)
8464.0 E03 ID is ????, very weak/unreadable. USB 05-08-03 Tue
1500 (CA2)
8494.0 MX channel marker "D" Odessa CW 29-08-03 Fri 0023 (LC2)
8494.7 MX Cluster beacon "D", Odessa CW 24-08-03 Sun 2015 (AB)
8494.7 MX Cluster beacon "D" CW 01-09-03 0122 (SPM)
8495 MX Cluster beacon "C", Moscow CW 24-08-03 Sun 2015 (AB)
8495 MX Cluster beacon "C" CW 01-09-03 0122 (SPM)
8544 E11 182/00 AM 12-08-03 0830 (MG)
8588.0 XSL Japanese naval PSK idling USB 08-08-03 Fri 1235 (BM)
8725 M13 272 271 21 CW 05-08-03 2100 (JP)
8725 M13 272 CW 19-08-03 Tue 2100 (HFD)
8759.0 M03 call sign 508 no msg CW 29-08-03 Fri 0011 (LC2)
9042 E07 701 000 AM 22-08-03 0530 (PB)
9062.0 M08a ID 10612 07091 85001 (rpt of 0400z on 10235m) CW
03-08-03 Sun 0500

9063.0 V02A Stronger than before, in progress AM 01-08-03 Fri 0007
 9112.0 M08a (in progress - missed callup) CW 30-08-03 Sat 0700
 9130.0 E10 EZI 44 NHZJZ (44 groups sent) USB 01-08-03 Fri 0300
 9130.0 E10 EZI 86 WHEUI USB 03-08-03 Sun 1900 (JAQ)
 9130.0 E10 EZI USB 03-08-03 Sun 2000 (JAQ)
 9130.0 E10 EZI USB 03-08-03 Sun 2130 (JAQ)
 9130.0 E10 EZI 45 NHZJZ (45 groups sent)//11565 USB 04-08-03 Mon
 0300 (BS4)
 9130.0 E10 E10, missed preamble, into message, strong/readable
 USB 05-08-03 Tue 0130 (CA2)
 9130.0 E10 E10, Sounds like EZI?, weak/mostly unreadable USB
 06-08-03 Wed 0100 (CA2)
 9130.0 E10 EZI 77 OBODD, 54 RGDRV//6840 USB 06-08-03 Wed 0230
 (BS4)
 9130.0 E10 EZI 66 BHMVM//6840, 11565 USB 07-08-03 Thu 0130 (BS4)
 9130.0 E10 E10, weak/mostly unreadable, into message, covered by
 static USB 07-08-03 Thu 0300 (CA2)
 9130.0 E10 EZI 76 VIKCL//6840 USB 07-08-03 Thu 2200 (JAQ)
 9130.0 E10 EZI 63 UALNO USB 07-08-03 Thu 2230 (JAQ)
 9130.0 E10 EZI 88 UWDNE//6840, 11565 USB 07-08-03 Thu 2330 (JAQ)
 9130.0 E10 EZI KRFFR //6840 AM 08-08-03 Fri 0130 (DM)
 9130.0 E10 E10, Calling EZI2, null message, fair/mostly readable
 USB 08-08-03 Fri 0200 (CA2)
 9130.0 E10 EZI2//11565 USB 08-08-03 Fri 0200 (BS4)
 9130.0 E10 EZI 114 CGHVE//6840 USB 08-08-03 Fri 1800 (JAQ)
 9130.0 E10 EZI 89 WWXTR USB 08-08-03 Fri 1830 (JAQ)
 9130.0 E10 EZI 86 WHEUI//6840 USB 08-08-03 Fri 1900 (JAQ)
 9130.0 E10 EZI 76 VIKCL USB 08-08-03 Fri 2000 (JAQ)
 9130.0 E10 UALNO USB 09-08-03 Sat 2230 (DM)
 9130.0 E10 AM 09-08-03 Sat 2345 (DM)
 9130.0 E10 EZI 12 BATFK USB 13-08-03 Wed 2030 (JAQ)
 9130.0 E10 EZI 10 DXMCJ//6840, 11565 USB 13-08-03 Wed 2130 (JAQ)
 9130.0 E10 EZI2 USB 15-08-03 Fri 0200 (GG)
 9130.0 E10 EZI 40 WENME USB 15-08-03 Fri 0300 (GG)
 9130.0 E10 EZI 77 AESFH//6840 USB 15-08-03 Fri 2200 (JAQ)
 9130.0 E10 EZI 18 MESOT USB 15-08-03 Fri 2230 (JAQ)
 9130.0 E10 EZI 114 CGHVE USB 16-08-03 Sat 1800 (JAQ)
 9130.0 E10 EZI 86 ?M???//11565 USB 16-08-03 Sat 1830 (JAQ)
 9130.0 E10 EZI 7? QHXIG USB 16-08-03 Sat 1900 (JAQ)
 9130.0 E10 EZI 114 CGHVE//6840 USB 17-08-03 Sun 1800 (JAQ)
 9130.0 E10 EZI//11565 USB 17-08-03 Sun 1830 (JAQ)
 9130.0 E10 EZI 73 QEXIG//6840 USB 17-08-03 Sun 1900 (JAQ)
 9130.0 E10 EZI 80 UOYW0//6849, 11565 USB 19-08-03 Tue 0130 (BS4)
 9130.0 E10 EZI 95 EVLDJ, ?? ?????//6840 USB 20-08-03 Wed 0230
 (BS4)
 9130.0 E10 EZI2//6840, 11565 USB 20-08-03 Wed 0300 (BS4)
 9130.0 E10 EZI 80 UOYW0//6840, 11565 USB 21-08-03 Thu 0130 (BS4)
 9130.0 E10 EZI 107 BRAID USB 23-08-03 Sat 2030 (GG)

9130.0 E10 EZI2 USB 24-08-03 Sun 0200 (DM)
 9130.0 E10 EZI 107 BRAID USB 24-08-03 Sun 2030 (BS4)
 9130.0 E10 EZI 28 ULKEX//6840 USB 24-08-03 Sun 2130 (BS4)
 9130.0 E10 EZI 77 AESFH//6840 USB 24-08-03 Sun 2200 (BS4)
 9130.0 E10 EZI 88 UWDNE//6840, 11565 USB 24-08-03 Sun 2330 (BS4)
 9130.0 E10 EZI2//6840, 11565 USB 25-08-03 Mon 0100 (BS4)
 9130.0 E10 EZI 28 ULKEE//6840 USB 25-08-03 Mon 0130 (BS4)
 9130.0 E10 56 AMUYZ USB 30-08-03 Sat 0300 (DM)
 9130.0 E10 EZI2 //6840//11565 USB 31-08-03 Sun 0100 (DM)
 9152.0 M08a ID 21692 54644 76334 CW 09-08-03 Sat 1200 (MS)
 9153.0 V02a USB 08-08-03 Fri 1300 (HT)
 9153.0 V02a ID ----- 85372 (YL/SS) (rpt of 0600z on 8097m)
 AM 30-08-03 Sat 0700 (MS)
 9165 S10D 555 472-96/17=54695 //7745 AM 16-08-03 Sat 1520 (HFD)
 9165 S10D CW 21-08-03 2130 (JP)
 9166 S10D 555 776-08/28=80014 //7475 AM 16-08-03 Sat 2130 (HFD)
 9202.0 E10 YHF2 USB 08-08-03 Fri 0200 (BS4)
 9202.0 E10 YHF 2 msgs: 96 NQFQY/46 DXIQY USB 16-08-03 Sat 0200
 (GG)
 9238.0 M08a ID 60453 38341 85002 CW 03-08-03 Sun 1100
 9238.0 V02A? Voice distorted beyond comprehension in any mode. USB
 08-08-03 Fri 0007 (DMc)
 9251 E03 LP. Id 25942 USB 2000 (PP1)
 9251.0 E03 Lincs. Poacher, call 73644 USB 24-08-03 Sun 1800 (MH)
 9251.0 E03 //6959 USB 28-08-03 Thu 2100 (DM)
 9260.0 V02a into message, signal very strong, S9, can be heard
 from 9256 - 9262, not as USB 06-08-03 Wed 0200 (CA2)
 9322.0 V02a strong signal, into message, distorted as usual USB
 07-08-03 Thu 0400 (CA2)
 9323.0 M08a ID 36653 41333 16482 CW 30-08-03 Sat 1000 (MS)
 9323.0 M08a (uncopiable - signal sounds like all dits and no dahs
 - just like the 0800z sked CW 31-08-03 Sun 0900 (MS)
 9330.0 M08a M8a, missed callup, into message, strong signal, ID
 maybe 38283 66673 ????? USB 27-08-03 Wed 1200 (CA2)
 9330.0 M08a M8a, sounds like keyer is defective, then at 12:07z
 starts coming clear, ID mayb USB 29-08-03 Fri 1200
 in progress AM 11-08-03 0614 (TAZ)
 9331 V02
 9384 M10 555 386 33 CW 21-08-03 1950 (JP)
 9385 M13a 621 CW 11-08-03 2000 (JP)
 9385 M13A 521 0 CW 26-08-03 Tue 2000 (HFD)
 9386 M10 555 477-71/38=05###3 470-###/###=##### //5945 CW
 16-08-03 Sat 0700 (HFD)
 9448 E11 312/00 AM 19-08-03 1230 (PP1)
 9610 E11 232/00 AM 08-08-03 1030 (CR)
 9725 V13 New Star AM 24-08-03 (TFEI)
 9937 M13 746 232 19 CW 05-08-03 2120 (JP)
 9950 E11 183/00 AM 19-08-03 1300 (PP1)
 10046 M22 4XZ. Israeli navy Haifa CW 04-08-03 1900 (RGA)

10046 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
10125 M10 ip CW 05-08-03 Tue 1645 (HFD)
10125.0 E11 USB 08-08-03 Fri 0800 (GG)
10125.0 M08a ID 67773 83472 79573 CW 09-08-03 Sat 0300 (MS)
10125.0 M08a ID 22603 80503 05243 CW 30-08-03 Sat 0300 (MS)
10125.0 M08a CW 30-08-03 Sat 0300 (DM)
10126.0 M08a ID 85362 97293 03343 (rpt of 0800z on 11432m) CW
30-08-03 Sat 0900 (MS)
10220 S06 257 0 AM 26-08-03 Tue 1850 (HFD)
10235.0 M08a ID 10612 07091 85001 CW 03-08-03 Sun 0400
10235.0 M08a In progress CW 10-08-03 Sun 0416 (BM)
10236.0 M08a ID 22032 77883 60723 CW 24-08-03 Sun 0800 (MS)
10236.0 M08a (uncopiable - signal sounds like all dits and no dahs
- typical Cuban operation) CW 31-08-03 Sun 0800 (MS)
10240 EE/male 274 274 (mins) 612 612 20 20 then 20FGs 612
612 20 20 00000 USB 15-08-03 1320 (LDO)
10344.0 M08a (in progress, missed addresses) CW 09-08-03 Sat 1100
10372 M13 517 CW 05-08-03 Tue 1900 (HFD)
10372 M13 517 CW 19-08-03 Tue 1900 (HFD)
10426.0 E03 weak/mostly unreadable, fading in and out of static,
covered by RTTY USB 04-08-03 Mon 2200 (CA2)
10426.0 E03 43438 USB 25-08-03 Mon 2200 (GG)
10426.0 V02a into message, strong signal, S6, distorted USB
06-08-03 Wed 0300 (CA2)
10446.0 V02a missed callup, into message, very weak/inaudible
signal USB 27-08-03 Wed 0300 (CA2)
10585.0 M08a M8a, missed callup, into message, weak signal USB
28-08-03 Thu 1200 (CA2)
10600 XP msg AM 05-08-03 Tue 0600 (HFD)
10601 XP Null msg AM 08-08-03 0600 (PB)
10601 XP Msg AM 12-08-03 0600 (MG)
10601 XP Msg AM 15-08-03 0600 (PB)
10601 XP Msg 19-08-03 0600 (PB)
10601 XP Msg 22-08-03 0600 (PB)
10601.0 XP Russian Polytone; weak; same aug. freq as last year
USB 05-08-03 Tue 0600 (BM)
10648 M42 Msg. Comes from 18588 kHz QPSK 10-08-03 0915 (LDO)
10648.0 E10 YHF in tfc USB 24-08-03 Sun 2030 (BS4)
10731 M13 517 = 232 22 = 21215 CW 18-08-03 1900 (JP)
10736 XP msg AM 07-08-03 Thu 2040 (HFD)
10736 XP msg AM 12-08-03 Tue 2040 (HFD)
10736 XP Msg AM 14-08-03 2040 (PB)
10858.0 M08a ID 69273 76932 27411 CW 09-08-03 Sat 1200 (MS)
10858.0 M08a M8a, strong signal USB 26-08-03 Tue 1200 (CA2)
10871.7 MX Cluster beacon "D", Odessa CW 30-08-03 Sat 2135 (AB)
10871.7 MX Cluster beacon "D" CW 01-09-03 0124 (SPM)
10871.9 MX Cluster beacon "S", Arkhangelsk CW 30-08-03 Sat 2149
10871.9 MX Cluster beacon "S" CW 01-09-03 0123 (SPM)

10872	MX	Cluster beacon "C", Moscow CW 30-08-03 Sat 2135 (AB)
10923	M10	555 486-80/32=92441 200-10/24=32344 //7380 CW 25-08-03 Mon 1410 (HFD)
11075	G06	308 0 AM 04-08-03 Mon 1900 (HFD)
11116	E11	232/00 AM 08-08-03 0800 (PP1)
11137	E07	233 1-759/63=84289 AM 07-08-03 Thu 2030 (HFD)
11137	E07	233 759 63 84289 AM 07-08-03 2030 (PB)
11432.0	M08a	ID 85362 97293 03343 CW 30-08-03 Sat 0800 (MS)
11444	M13	261 CW 03-08-03 1900 (JP)
11444	M13	261 CW 03-08-03 2000 (JP)
11444	M13	261 CW 17-08-03 Sun 1900 (HFD)
11444	M13	261 CW 17-08-03 Sun 2000 (HFD)
11444.0	M13	261 (R5) BT 27. (too weak for further copy) (2000z sked on 11444m not heard) CW 03-08-03 Sun 1900
11545.0	E03	66751 USB 02-08-03 Sat 2200 (GG)
11545.0	E03	extremely weak/mostly unheard, fading in and out of static USB 04-08-03 Mon 2000 (CA2)
11545.0	E03	weak/ mostly unreadable, fading in and out of static USB 04-08-03 Mon 2200 (CA2)
11545.0	E03	66914 USB 23-08-03 Sat 2000 (DM)
11545.0	E03	43438 USB 25-08-03 Mon 2200 (GG)
11545.0	E10	EZI2 //6840//9130 USB 31-08-03 Sun 0100 (DM)
11565.0	E10	EZI2 USB 03-08-03 Sun 1930 (JAQ)
11565.0	E10	EZI 45 NHZJZ (45 groups sent)//9130 USB 04-08-03 Mon 0300 (BS4)
11565.0	E10	E10, missed preamble, into message, fair/mostly readable USB 05-08-03 Tue 0130 (CA2)
11565.0	E10	E10, Calling EZI, message, strong/readable USB 05-08-03 Tue 0300 (CA2)
11565.0	E10	E10, into messsage, weak/mostly unreadable USB 06-08-03 Wed 0130 (CA2)
11565.0	E10	EZI 66 BHMVM//6840, 9130 USB 07-08-03 Thu 0130 (BS4)
11565.0	E10	E10, fair/mostly readable, into message USB 07-08-03 Thu 0300 (CA2)
11565.0	E10	EZI 88 UWDNE//6840, 9130 USB 07-08-03 Thu 2330 (JAQ)
11565.0	E10	E10, Calling EZI2, null message, fair/mostly readable USB 08-08-03 Fri 0200 (CA2)
11565.0	E10	EZI2//9130 USB 08-08-03 Fri 0200 (BS4)
11565.0	E10	EZI2 USB 08-08-03 Fri 1930 (JAQ)
11565.0	E10	In progress with tfc USB 10-08-03 Sun 0311 (BM)
11565.0	E10	EZI2 USB 12-08-03 Tue 0202 (GG)
11565.0	E10	EZI 10 DXMCJ//6840, 9130 USB 13-08-03 Wed 2130 (JAQ)
11565.0	E10	EZI2 USB 14-08-03 Thu 0202 (GG)
11565.0	E10	EZI 2 msgs: 76 0B0DD/54 RGDR? USB 15-08-03 Fri 0230 (GG)
11565.0	E10	EZI 40 WENME USB 15-08-03 Fri 0300 (GG)
11565.0	E10	EZI 18 DXMCJ//6840 USB 15-08-03 Fri 2130 (JAQ)
11565.0	E10	EZI 86 ?M???//9130 USB 16-08-03 Sat 1830 (JAQ)

11565.0 E10 EZI2 USB 16-08-03 Sat 1930 (JAQ)
11565.0 E10 EZI//9130 USB 17-08-03 Sun 1830 (JAQ)
11565.0 E10 EZI 80 UOYW0//6840, 9130 USB 19-08-03 Tue 0130 (BS4)
11565.0 E10 EZI2//6840, 9130 USB 20-08-03 Wed 0300 (BS4)
11565.0 E10 EZI 80 UOYW0//6840, 9130 USB 21-08-03 Thu 0130 (BS4)
11565.0 E10 EZI 88 UWDNE//6840, 9130 USB 24-08-03 Sun 2330 (BS4)
11565.0 E10 EZI2//6840, 9130 USB 25-08-03 Mon 0100 (BS4)
11565.0 M08a ID 67773 83472 79573 (rpt of 0300z on 10125m and
4028m) CW 09-08-03 Sat 0400 (MS)
11565.0 M08a ID 22603 80503 05243 (rpt of 0300z on 10125m) CW
30-08-03 Sat 0400 (MS)
11566 E10 in progress AM 04-08-03 1925 (RGA)
11566.0 V02a In prog AM 22-08-03 Fri 0320 (BM)
12093.0 M08a ID 21692 54644 76334 (rpt of 1200z on 10858m) CW
09-08-03 Sat 1300 (MS)
12093.0 M08a CW 09-08-03 Sat 1300 (HT)
12150 XP msg AM 01-08-03 Fri 2040 (HFD)
12151 XP 2040 (PP1)
12152 XP msg AM 12-08-03 Tue 2040 (HFD)
12153 M13 458 CW 11-08-03 2200 (JP)
12155.0 XP Russian Polytone - with msg. AM 14-08-03 Thu 2040
12176 XP msg AM 05-08-03 Tue 2020 (HFD)
12176 XP msg AM 12-08-03 Tue 2020 (HFD)
12176 XP Msg AM 14-08-03 2020 (PB)
12180.0 V02a into message, signal very strong, S9, more distorted
than 9260 xmsn. USB 06-08-03 Wed 0200 (CA2)
12180.0 V02a missed callup, very weak signal USB 27-08-03 Wed 0200
(CA2)
12200 XP msg AM 01-08-03 Fri 0620 (HFD)
12201 XP Null msg AM 08-08-03 0620 (PB)
12201 XP Msg AM 12-08-03 0620 (MG)
12201 XP Msg AM 15-08-03 0620 (PB)
12201 XP Msg 19-08-03 0620 (PB)
12201 XP Msg 22-08-03 0620 (PB)
12201.0 XP Russian Polytone; very weak; same aug. freq as last
year USB 05-08-03 Tue 0620 (BM)
12215.0 V02a into message, strong signal USB 08-08-03 Fri 0200
12215.0 V02a In prog AM 22-08-03 Fri 0212 (BM)
12226 E07 233 759 63 84289 AM 07-08-03 2010 (PB)
12231 M12 212 1 CW 05-08-03 Tue 2020 (HFD)
12231 M12 219 1 CW 19-08-03 Tue 2020 (HFD)
12231 M12 219 0 CW 26-08-03 Tue 2020 (HFD)
12603.0 E03 very weak/mostly unreadable, fading in and out of
static USB 04-08-03 Mon 1900 (CA2)
12603.0 E03 ID is 70869, fair/mostly readable, fading in and out
of static USB 05-08-03 Tue 2100 (CA2)
12603.0 E03 into message, fair/kinda readable, covered by CW USB
06-08-03 Wed 2200 (CA2)

12603.0 E03 into message, strong/readable USB 12-08-03 Tue 2100
12603.0 E03 ID is 6????, weak/mostly unreadable USB 12-08-03 Tue 2200 (CA2)
12603.0 E03 into message, strong/readable USB 13-08-03 Wed 2200
12603.0 E03 ID is 79109, fair/mostly readable, covered by CW USB 14-08-03 Thu 2200 (CA2)
12603.0 E03 repeatedly morsed : "DESV0" USB 24-08-03 Sun 1900 (MH)
12603.0 E03 weak signal/mostly unreadable, into message USB 26-08-03 Tue 2100 (CA2)
12614 M13 714 CW 29-08-03 Fri 2000 (HFD)
12984 M22 4XZ. Israeli navy Haifa CW 04-08-03 1900 (RGA)
12984 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
13501 XP Msg AM 12-08-03 0640 (MG)
13501 XP Msg AM 15-08-03 0640 (PB)
13501 XP Msg 19-08-03 0640 (PB)
13501 XP Msg 22-08-03 0640 (PB)
13505 E07 msg AM 04-08-03 Mon 2020 (HFD)
13505 E07 950 0 AM 06-08-03 Wed 2020 (HFD)
13509 XP Msg AM 14-08-03 2200 (PB)
13509.0 XP very weak/barely heard/almost unreadable, lost in static at around 22:02z AM 19-08-03 Tue 2200 (CA2)
13527.9 MX Cluster beacon "S", Arkhangelsk CW 31-08-03 Sun 0824
13528 MX Cluster beacon "C", Moscow CW 31-08-03 Sun 0824 (AB)
13533.0 E10 EZI 35 IBYCX AM 19-08-03 Tue 1430 (JS3)
13533.0 E10 EZI 35 IBYCX (same msg as the day before) AM 20-08-03 Wed 1430 (JS3)
13533.0 E10 EZI2 USB 24-08-03 Sun 1930 (BS4)
13533.0 E10 EZI 77 AESFH USB 24-08-03 Sun 2000 (BS4)
13533.0 E10 EZI1 USB 24-08-03 Sun 2100 (BS4)
13818 M42 Msg. Comes from 16048 kHz QPSK 10-08-03 0924 (LD0)
13837 V07 893 265 46 78345 etc AM 05-08-03 0600 (PB)
13837 V07 893 893 893 000 AM 12-08-03 0600 (MG)
13839 V07 893 1-265/46=78345 AM 05-08-03 Tue 0600 (HFD)
13848 XP msg AM 12-08-03 Tue 2020 (HFD)
13849 XP null msg 15-08-03 2020 (PB)
13850 XP msg AM 01-08-03 Fri 2020 (HFD)
13910.0 E06 "540 163 29 08367..." usb 17-08-03 Sun 1330 (AF)
13920 S06 635 376 64 etc AM 24-08-03 1700 (MG)
13953 XP msg AM 05-08-03 Tue 2000 (HFD)
13953 XP msg AM 12-08-03 Tue 2000 (HFD)
13953 XP Msg AM 14-08-03 2000 (PB)
13953.0 XP weak signal, only listened to first couple seconds. USB 07-08-03 Thu 2000 (CA2)
13966 M22 4XZ. Israeli navy Haifa CW 24-08-03 Sun 2128 (AB)
14350 XPH Msg AM 12-08-03 1850 (PB)
14352 XPH 0-msg AM 19-08-03 Tue 1850 (HFD)
14352 XPH 632 000 AM 19-08-03 1850 (RiN)
14352 XPH Null msg AM 24-08-03 1850 (MG)

14352 XPH msg AM 26-08-03 Tue 1850 (HFD)
14444 M10 555 386 33 CW 21-08-03 1950 (JP)
14487.0 E03 , ID is 79109, fair/mostly readable USB 05-08-03 Tue 1200 (CA2)
14487.0 E03 ID is 73554, strong/readable USB 05-08-03 Tue 1300
14487.0 E03 fair/mostly readable, into message USB 07-08-03 Thu 1300 (CA2)
14487.0 E03 very weak/mostly unreadable, into message USB 07-08-03 Thu 1400 (CA2)
14909 XP Msg AM 14-08-03 2140 (PB)
14909.0 XP Fair/Strong/Mostly readable, message AM 19-08-03 Tue 2140 (CA2)
14909.0 XP fair signal, able to bring it to a strong/readable signal with filter, null AM 28-08-03 Thu 2140 (CA2)
14910 E07 950 0 AM 06-08-03 Wed 2000 (HFD)
14910 XP msg AM 05-08-03 Tue 2140 (HFD)
14931 M16 VVV 8BY 218 384 033 872 542 395 CW 23-08-03 2245
14937 V07 893 265 46 78345 etc AM 05-08-03 0620 (PB)
14937 V07 893 1-265/46=78345 AM 05-08-03 Tue 0620 (HFD)
14937 V07 893 893 893 000 AM 12-08-03 0620 (MG)
14940 V07 893 0 AM 28-08-03 Thu 0620 (HFD)
14984 XP msg AM 01-08-03 Fri 2000 (HFD)
14984 XP null msg 15-08-03 2000 (PB)
15626 XPH Msg AM 12-08-03 1830 (PB)
15629 XPH 0-msg AM 19-08-03 Tue 1830 (HFD)
15629 XPH Null msg AM 24-08-03 1830 (MG)
15682.0 E03 ID is 73554, fair/mostly readable USB 05-08-03 Tue 1300 (CA2)
15682.0 E03 fair/kinda readable, into message USB 07-08-03 Thu 1300 (CA2)
15682.0 E03 weak/kinda readable, into message USB 07-08-03 Thu 1400 (CA2)
15682.0 E03 into message, weak/mostly unreadable USB 08-08-03 Fri 1200 (CA2)
15682.0 E03 fair/mostly readable, ID is 69711 USB 08-08-03 Fri
15682.0 E03 ID is 61344, weak/kinda readable USB 17-08-03 Sun 1200 (CA2)
15682.0 E03 inaudible/very weak, ID was 0????, barely heard here USB 20-08-03 Wed 1200 (CA2)
15682.0 E03 54509 USB 29-08-03 Fri 1400 (DM)
15815 E06 761 761 761 00000 AM 24-08-03 1223 (MG)
16084.0 E03 ID is 73554, covered by carrier of another xmsn on 16085 USB 05-08-03 Tue 1300 (CA2)
16084.0 E03 almost inaudible/unreadable, into message USB 07-08-03 Thu 1500 (CA2)
16309 XP msg AM 05-08-03 Tue 2120 (HFD)
16309 XP msg AM 12-08-03 Tue 2120 (HFD)
16309 XP Msg AM 14-08-03 2120 (PB)

16309.0 XP Good to hear XP again, fairly strong/mostly readable,
 message. AM 19-08-03 Tue 2120 (CA2)
 16309.0 XP inaudible/extremely weak, but heard, faded into static
 at about 21:21z AM 26-08-03 Tue 2120 (CA2)
 16314 E03 LP in progress AM 12-08-03 1433 (RGA)
 16314.0 E03 ID is 21818, fair/mostly readable USB 05-08-03 Tue
 1400 (CA2)
 16314.0 E03 ID is 21818, fair/mostly readable USB 05-08-03 Tue
 1400 (CA2)
 16331.7 MX Cluster beacon "D", Odessa CW 31-08-03 Sun 0824 (AB)
 16331.9 MX Cluster beacon "S", Arkhangelsk CW 31-08-03 Sun 0824
 16332 MX Cluster beacon "C", Moscow CW 31-08-03 Sun 0824 (AB)
 16337 V07 893 265 46 78345 etc AM 05-08-03 0640 (PB)
 16337 V07 893 1-265/46=78345 AM 05-08-03 Tue 0640 (HFD)
 17409 E10 EZI1 AM 24-08-03 1232 (MG)
 17417.0 E03 very weak/unreadable, into message USB 07-08-03 Thu
 1500 (CA2)
 17435 E06 761 761 761 00000 AM 24-08-03 1320 (MG)
 18247 M42 Dept of State Comms MFSK 06-08-03 0925 (HPT)
 18415 M16 8BY CW 06-08-03 0940 (HPT)
 18588 M42 Msg. Moving to 10648 kHz QPSK 10-08-03 0900 (LDO)
 19452.0 E03 almost inaudible/unreadable, into message USB 07-08-03
 Thu 1500 (CA2)
 20047.9 MX Cluster beacon "S", Arkhangelsk CW 31-08-03 Sun 0824
 20048 MX Cluster beacon "C", Moscow CW 31-08-03 Sun 0914 (AB)
 20615 M42 Dept of State Comms Moscow. Msg to UDZ27 on link 10163
 RTTY 15-08-03 0916 (LDO)
 20946 M16 8BY. VVV VVV VVV 8BY 8BY 8BY 686 / 862 /300 / 033 CW
 19-08-03 1355 (PP1)

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